

DSN Antenna Downtime Status and Forecast



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Antenna Downtime Status and Forecast

The following downtime periods were approved at the February 2007 RAR

Newly Approved Downtimes 2007

- ❑ DSS-14 Grouting – NIB and ACR S/W upgrade Proposed in weeks 40 – 42
- ❑ DSS-45 Antenna Controller Replacement proposed in weeks 40 – 46
- ❑ DSS-65 200W S-Band U/L and Depot Level Maintenance – NIB proposed for weeks 44 – 49

Newly Approved Downtimes 2008

- ❑ DSS-34 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 27 – 39 for 77 days will be discussed during the INCF / RAR on February 13, 2007

Newly Approved Downtimes 2009

- ❑ DSS-24 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 27 – 38 for 77 days will be discussed during the INCF / RAR on February 13, 2007

Newly Approved Downtimes 2010

- ❑ DSS-54 Downtime for Ka-Band Phase 2 Install with DLM – NIB proposed for weeks 27 – 38 for 77 days will be discussed during the INCF / RAR on February 13, 2007

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

Antenna Downtime Status and Forecast

Changes to 2007 Downtime Schedule

- ❑ GDSCC Complex-wide downtime for NMC-CF on February 13, DOY 044 (02:15 – 10:15 UTC) was implemented in the Mid-Range Schedule
- ❑ MDSCC Complex-wide downtime for NMC-CF on March 15, DOY 074 (18:00 – 02:00 UTC) was implemented in the Mid-Range Schedule
- ❑ CDSCC Complex-wide downtime for NMC-CF on May 1, DOY 121 (08:15 – 16:15 UTC) was implemented in the Mid-Range Schedule

The following are tasks to be performed as 8 hour shifts at DSS-24:

- ❑ QPOD APEX MOUNT on April 12, DOY 102 (15:00 – 23:00)
- ❑ QPOD APEX MOUNT on April 14, DOY 104 (15:00 – 23:00)
- ❑ AZ WRAP on April 21, DOY 111 (15:00 – 23:00)
- ❑ RECEIVER RACK on June 12, DOY 163 (15:00 – 23:00)
- ❑ ANT LAN TESTING on June 17, DOY 168 (15:00 – 23:00)

All previous downtime proposals have been agreed to by all DSN Missions/Users through the INCF/RAR, JURAP or Mid-Range Scheduling Process

Antenna Downtime Status and Forecast

DSN Antenna Downtime Report

2007							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 65	Antenna Drive Cabinet Refurbishment	02/26/2007 00:00	04/16/2007 23:59	50	09 - 16	057	106
DSS 43	Painting	03/26/2007 01:00	04/02/2007 23:59	7	13 - 13	085	091
DSS 46	Painting	04/03/2007 22:00	04/07/2007 08:00	4	14 - 14	093	096
DSS 14	Grouting	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
DSS 14	HALON Replacement- NIB	04/27/2007 00:00	05/08/2007 23:59	11	17 - 19	117	127
DSS 46	Hydraulics	05/14/2007 00:00	05/19/2007 23:59	5	20 - 20	134	138
DSS 66	Hydraulics Task	05/28/2007 00:00	06/01/2007 23:59	5	22 - 22	148	152
DSS 63	Hydrostatic Bearing Replacement	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Depot Level Maintenance - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 63	Load Sensors Install - NIB	06/12/2007 00:00	09/16/2007 23:59	97	24 - 37	163	259
DSS 45	Antenna Drive Cabinet Refurbishment	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	S-Band 200w U/L Install - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Depot Level Maintenance - NIB	08/27/2007 00:00	10/01/2007 23:59	36	35 - 40	239	274
DSS 45	Antenna Controller Replacement	10/01/2007 00:00	11/19/2007 23:59	49	40 - 46	274	322
DSS 14	ACR S/W Install	10/08/2007 00:00	10/21/2007 23:59	13	41 - 42	281	293
DSS 14	Grouting - NIB	10/08/2007 00:00	10/14/2007 23:59	7	41 - 41	281	287
DSS 65	200w S-Band U/L	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343
DSS 65	Depot Level Maintenance - NIB	10/29/2007 00:00	12/10/2007 23:59	42	44 - 49	302	343

Antenna Downtime Status and Forecast

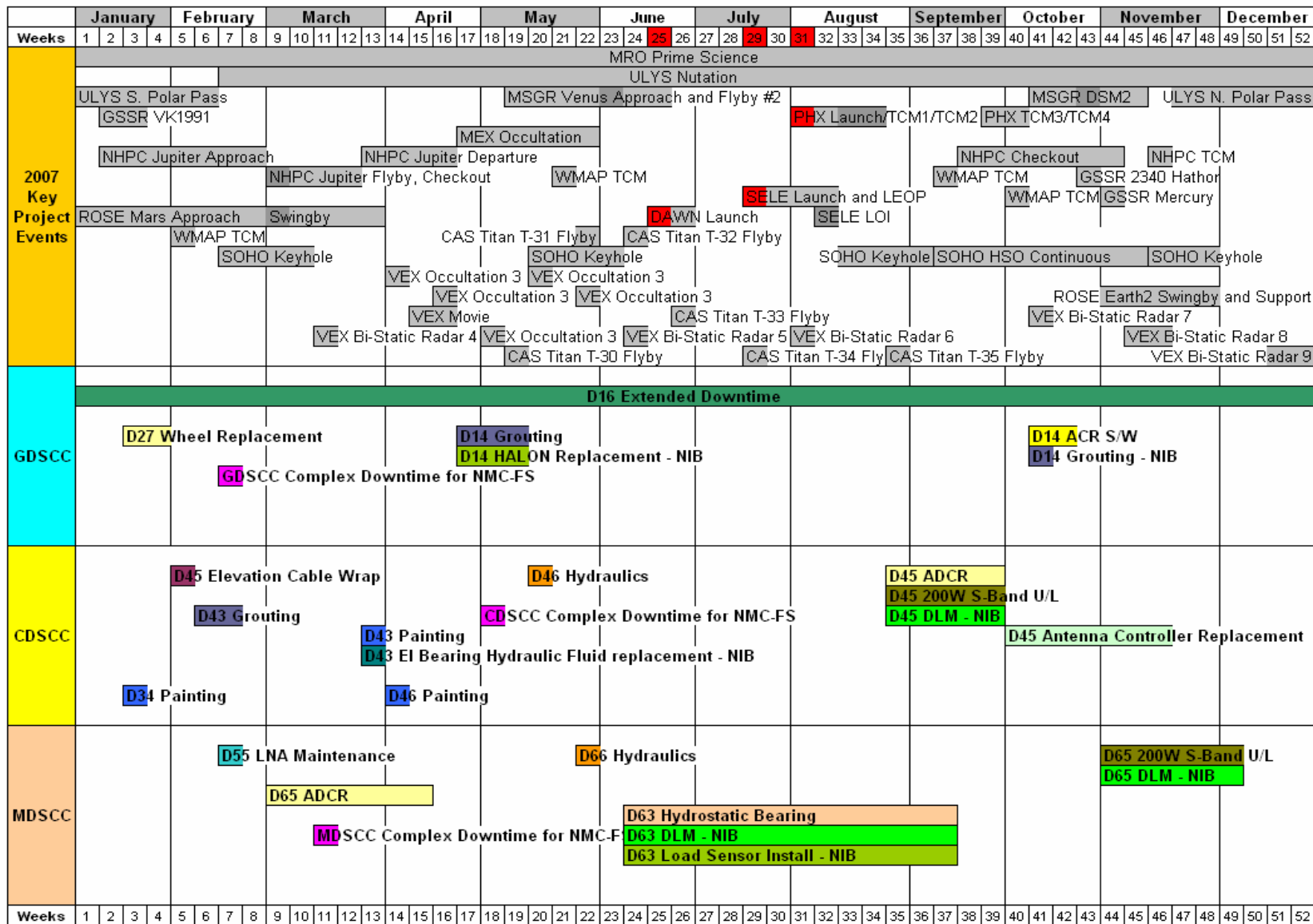
DSN Antenna Downtime Report

2008							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	X/Ka-Band Install	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Track Refurbishment - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	AZ Data Gear Replacement - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Q-Band Installation - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 54	Depot Level Maintenance - NIB	02/04/2008 00:00	05/11/2008 23:59	98	06 - 19	035	132
DSS 15	Life Extension	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 15	Depot Level Maintenance - NIB	02/18/2008 00:00	05/11/2008 23:59	84	08 - 19	049	132
DSS 34	Ka-Band Phase 2 Install	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 34	Depot Level Maintenance - NIB	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 43	Life Extension	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088
DSS 43	Depot Level Maintenance - NIB	09/29/2008 00:00	03/29/2009 23:59	182	40 - 13	273	088

2009							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	Life Extension	03/30/2009 00:00	09/27/2009 23:59	182	14 - 39	089	270
DSS 24	Ka-Band Phase 2 Install	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 24	Depot Level Maintenance - NIB	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 14	Life Extension	09/28/2009 00:00	03/28/2010 23:59	182	40 - 12	271	087

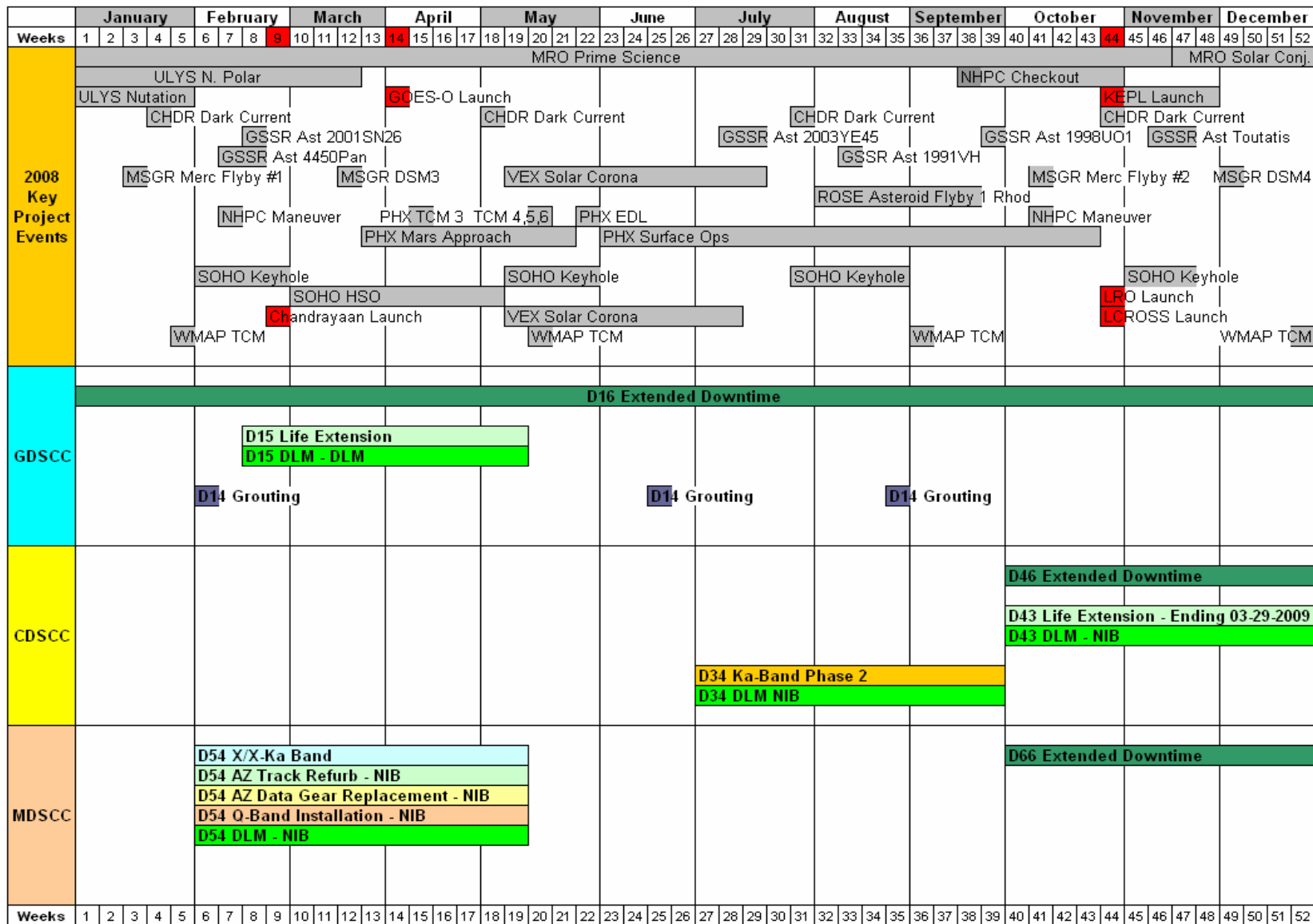
2010							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 54	Depot Level Maintenance - NIB	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269
DSS 54	Ka-Band Phase 2 Install	07/12/2010 00:00	09/27/2010 23:59	77	28 - 38	193	269

Antenna Downtime Status and Forecast 2007



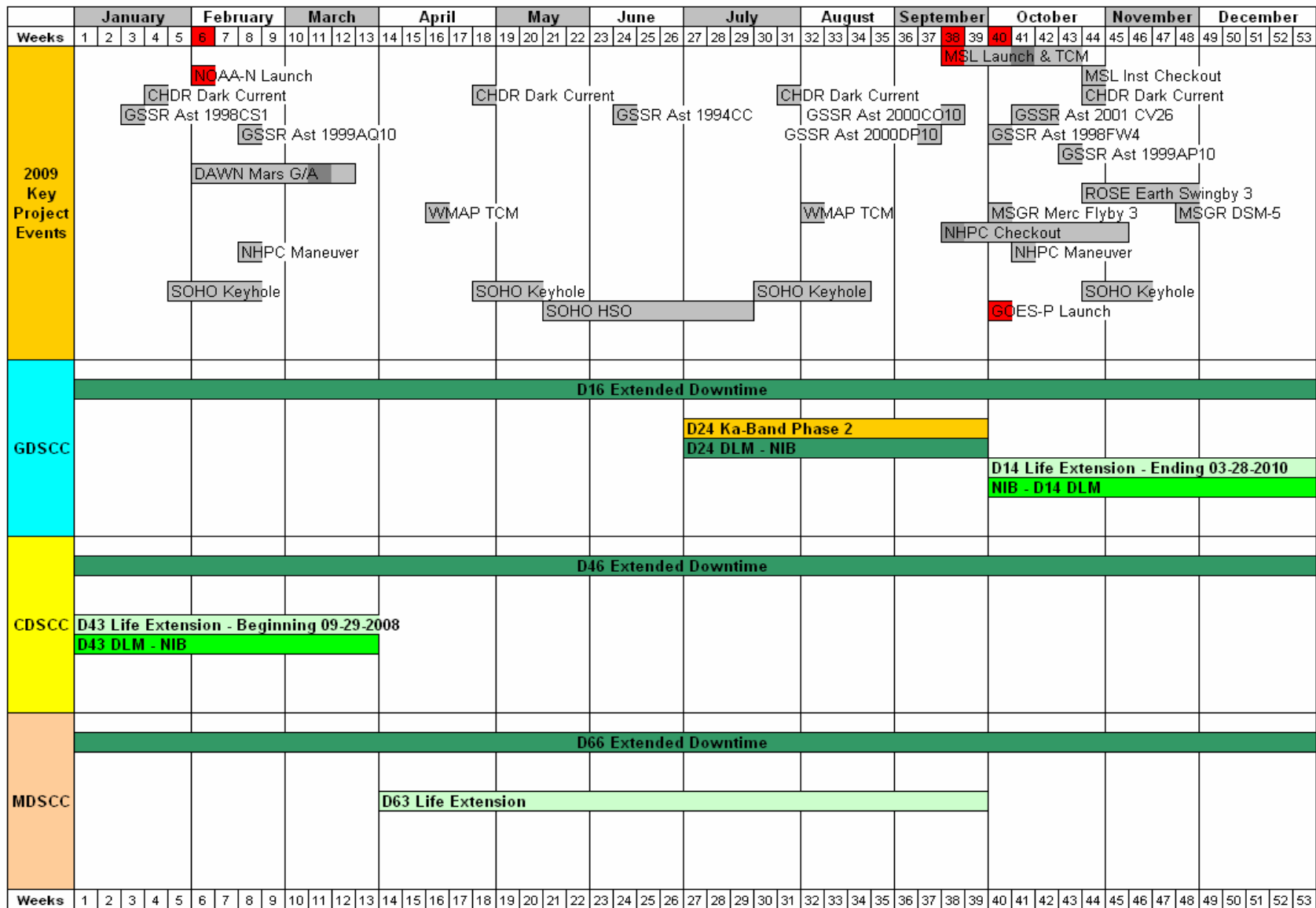
Revised: March 5, 2007

Antenna Downtime Status and Forecast 2008



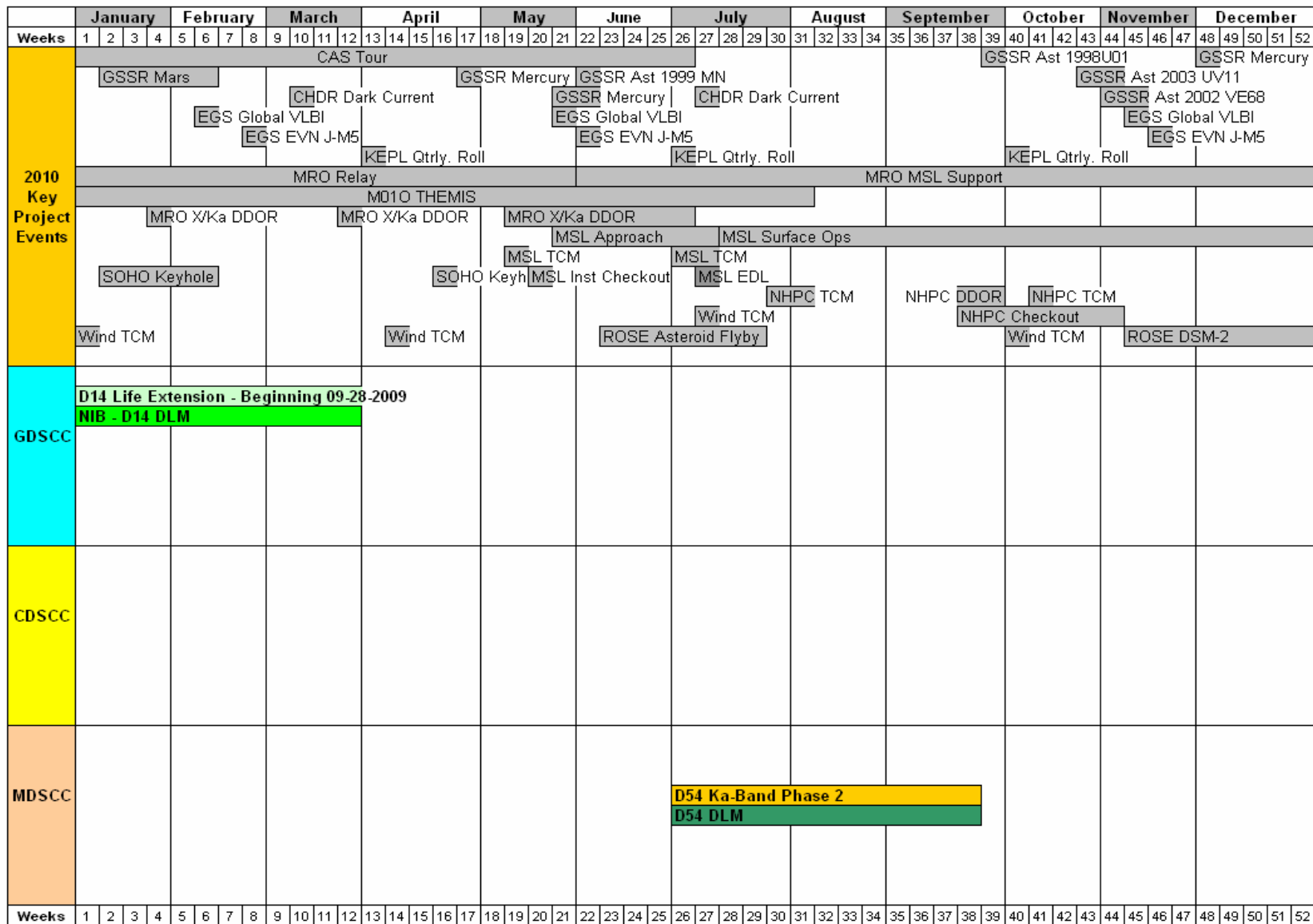
Revised: February 16, 2007

Antenna Downtime Status and Forecast 2009



Revised: February 16, 2007

Antenna Downtime Status and Forecast 2010



Revised: February 16, 2007

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	12/19/07	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 02/09/07 ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists									